

Preliminary Investigation Check List

PP	PI Title	PSC	Customer Rep	PM	Investigator	Priority	Status	Kickoff Meeting	Close-out Meeting	PI Results
PI-District-1	Construction, Maintenance, and Long Term Impacts to Old Growth Conifers Abutting Highways	D-1	Deborah Harmon	Harold Hunt	CTC	Completed	Completed	9/1/11	11/9/11	Satisfied with PI. PI was not posted on DRI's website because of the legal ramification in California on this topic. website
PI-District-4	The Relationship between Corner Curb Radius and Injury Severity at Locations with Pedestrian Crossings	D-4	Beth Thomas	Bob Justice	Tech Transfer Librarians	Completed	Completed	12/12/11	3/22/12	PI submitted as NCHRP candidate FY2013
PI-District-1	Traffic Noise Generated by Rumble Strips	D-1	Dana York	Joel Retanan	CTC	Completed	Completed	1/20/12	4/17/12	Satisfied with PI-research project
PI-District-North Region	Cured In Place Pipes (CIPP) and Thermoplastic Resin(s) Toxicity Impacts to Receiving Waters	North Region	David Melendrez/Sean Penders	Tam Nguyen / Fred Yazdan	CTC	Completed	Completed	3/16/12	12/3/12	Satisfied with PI-next phase -PM (Fred Yazdan) will lead panel forth in new research project for FY 13/14.
PI-District-12	Automated Video Incident Detection System	D-12	Mort Fahrtash	Fred Yazdan	CTC	Completed	Completed	6/21/12	11/14/12	Next phase –PM (Fred Yazdan) will lead Panel in contacting Mass DOT, and proposing a new research project (Pilot project in D-7 and D-12) for FY 13/14.
PI-District-11	Optimum Amount of Money/Resources for Public Outreach During a Major Planned Closure	D-11	Laurie Berman	Melissa Clark	Melissa Clark	In-progress	In-progress			Melissa received answers from survey questions analyzing information gathered
PI-District-5	Forecasting Habitat Changes in the Scott Creek Estuary Due to Replacing the Bridge on SR 1 (Bridge # 360031)	D-5	Brandy Rider	Harold Hunt	CTC	Completed	Completed	7/9/14	1/13/15	The final report was shared with Public Affairs in District 5. The panel is considering going forward with a research project.
PI-District-6	Safety and Viability of Bicycle Facilities in the San Joaquin Valley	D-6	Joanne Striebich	TBD		1	In-queue			

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PI-District12	Study on the use of 3rd-party GPS data for Mobility Performance Report (MPR) and Bottleneck Identification	Transp Safety & Mobility	Farid Nowshiravan	John Slonaker	CTC	On-Hold	On-Hold	3/15/13		
PI-0909-DC	Green Infrastructure - Guidelines to Implement Climate Change Adaptation Strategies in Highway Roadsides	Design/ Construction	Keith Robinson	Harold Hunt	CTC	Completed	Completed		2/11/10	Satisfied with PI
PI-0951-DC	Tree Safety	Design/ Construction	Keith Robinson	Harold Hunt	CTC	Completed	Completed		4/1/10	Satisfied with PI
PI-0919-DC	Roadside Management Strategies to Reduce Greenhouse Gases	Design/ Construction	Keith Robinson	Doug Brown	CTC	Completed	Completed	5/18/10	7/6/10	Satisfied with PI
PI-5911-DC	Consultant vs. Staff Cost Comparison (1)	Design/ Construction	Said Ismail	Kamal Sah	CTC	Completed	Completed	5/1/11	7/16/12	Satisfied with PI
PI-6111-DC	Consultant vs. Staff Cost Comparison (2)	Design/ Construction	Said Ismail	Kamal Sah	CTC	Completed	Completed	8/1/11	10/1/11	Satisfied with PI
PI-0111-DC	Effectiveness of Traffic Calming Techniques	Design/ Construction	Doug Brown	Harold Hunt	CTC	Completed	Completed	3/28/11	11/16/11	Satisfied with PI-possible research project
PI-0212-DC	Partnering Benchmark Study	Design/ Construction	Mark Leja	Roya Hassas	CTC	Completed	Completed	1/3/12	4/11/12	Satisfied with PI possible research project
PI-0312-DC	Enhanced Constructability Review (1)	Design/ Construction	Terry Abbott/ Tim Craggs/ Mark Leja/ Mark Turner	Kamal Sah	CTC	Completed	Completed	12/19/11	3/12/12	Satisfied with PI possible research project
PI-1112-DC	Enhanced Constructability Review (2)	Design/ Construction	Homar Noroozi, Juan Araya, Jesus Mora ,Mark Turner, Chuck Suszko, Jim Cotey	Haniel Chung	CTC	Completed	Completed	9/25/13	9/10/14	Panel will request DRISI Communication to do a Research Connection Work shop for the PI topic.
PI-0212-DC	Effects of Digital Outdoor Advertising Displays on Driver Safety	Design/ Construction	Doug Brown	Roya Hassas	CTC	Completed	Completed	6/6/12	11/14/12	PI Panel agreed to change the word "safety" to "driver behavior" in many cases throughout the PI report. Customer will send email with scope for possible research project through DRI or NCHRP.

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PI-0102-DC	Low Profile Barrier Alternatives	Design/ Construction	Doug Brown	Fred Yazdan	CTC	Completed	Completed	2/4/13	8/22/13	John Jewel's office will prepare a memo to be signed by Randy Hiatt requesting FHWA approval to use Washington DOT's 20 inch low profile barriers with backfill without testing. If the request is not approved might consider further research.
PI-0212-DC	The State of the Practice of Transportation Landscape Architects (P956)	Design/ Construction	Jennifer Taira	Gloria Gwynne	CTC	Completed	Completed	7/7/14	11/10/14	CTC delivered the final the draft report on Roles of Landscape Architects on 11/10/14. Panel made a few revision. Once revision are made report will be closed out.
PI-0314-DC	Cycle Track	Design/ Construction	Kevin Herritt	Gloria Gwynne		In-progress	In-progress	1/5/15		CTC delivered the scope for Cycle Track on 1/9/2015,
PI-1205-DC	Highway soil compaction and safety for storm water treatment BMPs.	Design/ Construction	Sean Penders PE, Ray Trifft			1	In-queue			
PI-0214-DC	Corrugated Steel Culvert Corrosion & Abrasion Performance	Design/ Construction	Glenn DeCou, Paul Davies , Leo Martinez			2	In-queue			
PI-0935-DC	Performance Measure for Roadside Worker Safety Feasures (P961)	Design/ Construction	Jennifer Taira	Gloria Gwynne		3	In-queue			

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PI-0103-DC	Sustainable Solutions by Establishing Native Plants, Long-Term Success Rates & Cost/Benefits of Specific Planting Techniques (P960)	Design/Construction	Jennifer Taira	Harold Hunt		4	In-queue			
PI-0104-DC	Performance Measures for Roadside Vegetation	Design/Construction	Jennifer Taira			5	In-queue			
PI-0928-DC	Green Buildings	Design/Construction	Jennifer Taira	Doug Brown	Student	No longer needed	No longer needed	6/1/10		
PI-0803-DRIS	Real-Time Data to Improve En Route Decision Making and Reduce Transportation Demand (NCHRP Candidate)	DRISI	Sheila Chowdury/Thomas Schriber	Hassan Aboukhadijeh	CTC	Pilot	Completed	--	7/1/09	NCHRP Success
PI-0211-DRIS	State DOTs and how they implement research results	DRISI	Rebecca Boyer	Rebecca Boyer	CTC	Completed	Completed	2/11/11	4/1/11	Satisfied with PI results used for March 2011 Peer Exchange
PI-0901-DRIS	Intellectual Property: National and International Perspectives	DRISI	Larry Orcutt		CTC	Completed	Completed		6/1/10	Satisfied with PI
PI-0812-DRIS	Application of Cross-Asset Optimization in Transportation Asset Management: A Survey of State Practice and Related Research.	DRISI	Steve Guenther	K Scott Williams	CTC	Completed	Completed	1/13/12	8/23/12	PI results were used to develop white paper for Executive Board.
PI-0113-DRIS	Alternative Transportation Financing Strategies	DRISI	Debra Prichard,Nizar Melehani,Pam Korte,Barry Padilla,Rahul Srivastava,Nancy Chinlund, Nicole Longoria, Norma Ortega, Kome Ajise,	K Scott Williams	CTC	Completed	Completed	12/19/12	2/4/13	Customers were pleased with the PI, and may be requesting a future follow-on PI to dig down into the more progressive states to ask questions about their implementation costs and strategies.
PI-0902-DRIS	Intellectual Property: California	DRISI				No longer needed	No longer needed			
PI-1112-DRIS	Impacts of Increasing Vehicle-Occupancy Requirements on HOV/HOT Lanes	DRISI	Joseph Rouse	Fred Yazdan	CTC	Completed	Completed	12/20/12	4/15/13	CTC delivered the PI and case studies on 4/5/13. Satisfied with PI.

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PI-1112-DRIS	Geospatial Highway Inventory and Traffic Safety Application	DRISI	Mark Samuelson	Mandy Chu	CTC	Completed	Completed	7/19/13	11/19/13	Satisfied with PI
PI-1210-EV	Environmentally Friendly Elimination of Moss Pavement Enhance Safety	Environmental	Deborah Harmon	Harold Hunt	CTC	Completed	Completed	2/8/11	4/25/11	Satisfied with PI-possible research project
PI-1015-EV	Cultural Resources Public Outreach	Environmental	Glenn Gmoser	Harold Hunt	CTC	Completed	Completed	10/28/10	2/18/11	Satisfied with PI-PI submit as a candidate for the Synthesis FY 2013
PI-0711-EV	Use of Cool Pavements to Reduce Energy Use and Mitigate Greenhouse Gas Emissions	Environmental	Bruce Rymer	Harold Hunt	Tech Transfer Librarians	Completed	Completed	6/8/11	11/15/11	Satisfied with PI results used at an environmental conference
PI-0701-EV	Comparative Life Cycle Costs of Culverts That Provide Unimpeded Fish and Wildlife Movement	Environmental	Amy Pettler/ Richard Hill	Harold Hunt	CTC	Completed	Completed	9/13/12	3/20/12	Satisfied with PI-possible research project
PI-0812-EV	Promoting the Ability of Sensitive Reptiles and Amphibians to Cross Highway Corridors (1)	Environmental	Margaret Gabil	Harold Hunt	CTC	Completed	Completed	8/24/12	12/4/12	Panel wants to pursue a follow-on PI, on California species' life history and habitat requirements. With Kendra Levine, at UC Berkeley Library.
PI-0313-EV	Promoting the Ability of Sensitive Reptiles and Amphibians to Cross Highway Corridors (2)	Environmental	Amy Pettler/ Richard Hill	Harold Hunt	Tech Transfer Librarians	Completed	Completed	4/3/13	11/7/13	Next step research project Harold Hunt will contact the Fish & Wildlife and USGS for a list of their interest and pressing issue on this topic.
PI-0214-EV	Improved Exclusion Barriers for Desert Tortoises	Environmental	Kyle Myrick, Amy Golden, Scott Quinnell	Harold Hunt	DRISI (In House PI)	Completed	Completed	4/3/14	6/25/14	Panel wants to develop an Official Design Drawing (engineering system). Harold Hunt and Amy Golden (Env) develop the design plans.

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PI-0614-EV	Fencing and One-Way Gates to Reduce Wildlife-Vehicle Collisions for Small and Medium Sized Animals	Environmental	Celina Oliveri	Harold Hunt	CTC	Completed	Completed	6/11/14	10/9/14	Waiting for the NCHRP Project 25-25, Task 84 re: SR 23 PI report to be completed to determine to do a pool fund or research project
PI-0723-EV	Monitoring the Endangered tidewater goby using environmental DNA in water samples	Environmental	Amy Golden, Susan Leroy	Harold Hunt	CTC	In-progress	In-progress	11/21/14		
PI-0923-EV	Statewide Cultural Property Information System	Environmental	Glenn Gmoser			1	In-queue			
PI-0932-EV	Best Practices for Native American Consultation and Coordination.	Environmental	Glenn Gmoser			2	In-queue			
PI-0939-EV	Geoarchaeological Sensitivity Modeling	Environmental	Glenn Gmoser			3	In-queue			
PI-0943-EV	Cost Effective and Innovative Mitigation Practices	Environmental	Glenn Gmoser			4	In-queue			
PI-0946-EV	Practical Applications of Remote Sensing	Environmental	Glenn Gmoser			5	In-queue			
PI-0949-EV	Research Contexts for Archaeology and History	Environmental	Glenn Gmoser			6	In-queue			
PI-1014-EV	Joshua Trees (Yucca Brevifolia) and Highway Safety	Environmental	Paul Caron			No longer needed	No longer needed	6/8/10		
PI-0947-GS	'Local' with 'Global' NDT Methods to Assess Capacity of PT Box-Girder Structures	Geotech/ Structural	Charles Sikorsky			No longer needed	No longer needed			
PI-0913-GS	Evaluate Premixed Polyester Concrete as Wearing Surface on Orthotropic Steel Decks	Geotech/ Structural	Mike Keever/ Paul Chung			No longer needed	No longer needed			
PI-0933-GS	Improved LRFD & LRFR Specifications for Permit & Fatigue Truck Loads	Geotech/ Structural	Sue Hida	Sue Hida	CTC	Completed	Completed	11/2/09	1/10/10	DRI Research Project
PI-0940-GS	Geophysical Methods for Geotechnical Site Characterization	Geotech/ Structural	Mark Willian	Bill Owen	Bill Owen	Completed	Completed		3/29/10	Satisfied with PI
PI-1011-GS	Steel Girder End Panel Shear Resistance	Geotech/ Structural	Lian Duan	Charles Sikorsky	Charles Siorsky	Completed	Completed	10/28/10	10/28/10	

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PI-0913-GS	Unmanned Aerial Systems (UAS) for Steep Terrain Investigations	Geotech/ Structural	Ron Karpowicz, John Duffy, Craig Hannenian, Jim Morris,	Loren Turner	CTC	Completed	Completed	5/27/14	9/8/14	Panel will proceed forth with a research project and NCHRP process.
PI-09131-GS	Rockfall Internal Measurement Unit (RIMU) "SmartRock"	Geotech/ Structural	Bill Webster, Jim Duffy,Brian Hinman,Craig Hannenian,	Loren Turner		In-progress	In-progress			Customer rep for the PI retired. Geotech will advise on when to schedule the kick off meeting.
PI-0944-GS	Calibration of the CEB Equations for Shrinkage Prediction to Improve Bridge Designs	Geotech/ Structural	Mike Keever	Peter S. Lee		1	In-queue			
PI-0924-GS	Extending Service Life and Performance of Bridge Decks	Geotech/ Structural	Mike Keever/ Mike Johnson	Steve Sahs		2	In-queue			
PI-1111-DOE	Effective Management of DOT Equipment (1)	Division of Equipment	Larry Orcutt	Tori Kanzler	CTC	Completed	Completed			Satisfied with PI
PI-0113-DOE	Effective Management of DOT Equipment (2)	Division of Equipment	Larry Orcutt	Bob Meline	CTC	Completed	Completed	2/5/13	4/21/13	Follow on for Fleet Equipment is a peer exchange.
PI-1111-DOE	GPS on Equipment	Division of Equipment	Larry Orcutt	Tori Kanzler	CTC	Completed	Completed	12/16/11	12/16/11	Research project and implementation
PI-1112-DOE	Fleet Equipment Asset Management-Performance Measures	Division of Equipment	Larry Orcutt	Bob Meline	CTC	Completed	Completed	12/6/12	12/28/12	PI submit as a candidate for NCHRP Synthesis FY 2013
PI-0614-DOE	Equipment Production and Procurement Costs	Division of Equipment	Kris Teague, Ed Giroux	Joe Horton	CTC	Completed	Completed	5/16/14	6/24/14	Satisfied with PI-
PI-1114-DOE	Best Practices of Ways to Reduce Illness and Injury Rate in Heavy Duty Mechanics	Division of Equipment	Mike Tanner, Lisa Kunzman	Robert Buendia	CTC	In-progress	In-progress	9/23/14		CTC provided a survey of current best practices on how to reduce heavy duty mechanic injuries for TRB Equipment
PI-01111-MA	Life cycle cost principles for reducing maintenance costs and worker exposure	Maintenance	Mike Evans	K Scott Williams	CTC	Completed	Completed	1/7/12	3/7/12	PI results were used to meet with Executive staff.
PI-07110-MA	Laws to deter the recycling of stolen metals	Maintenance	Steve Takigawa	Pete Zanewski	CTC	Completed	Completed			Satisfied with PI-potential research project

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PI-07111-MA	Highway Safety Education and Outreach	Maintenance	Larry Orcutt	Randy Woolley	CTC	Completed	Completed	6/28/11		Finding were used as a Safety performance measure for Executive staff.
PI-07112-MA	Highway Safety Policies and Legal Issues	Maintenance	Larry Orcutt	Randy Woolley	CTC	Completed	Completed	6/28/11		Finding were used as a Safety performance measure for Executive staff.
PI-07113-MA	Highway Safety Technologies	Maintenance	Larry Orcutt	Randy Woolley	CTC	Completed	Completed	6/28/11		Finding were used as a Safety performance measure for Executive staff.
PI-0908-MA	Quick Clearance for Major Traffic Incidents	Maintenance	Nader Eshghipour	Mandy Chu	CTC	Completed	Completed	9/21/09	3/8/10	DRI Research Project
PI-0812-MA	Does crack sealing have negative effects on the coefficient of friction for single track vehicles such as motorcycles?	Maintenance	Peter Vacura/ Joe Peterson/ Chuck Suzko/ Craig Copeland	Joe Holland	TBD	On-Hold	PSC has placed this PI on hold.	6/12/12		
PI-0712-MA	Flood Warning Alert System	Maintenance	Herby Lissade	Bob Meline	CTC	Completed	Completed	10/5/12	3/6/13	Will do a 2-part project plan: 1. Six month feasibility study with cost-benefit analysis on the options of purchasing vs. developing a flood warning system. 2. Purchase a or do in house project.
PI-1113-MA	Best design practices and products to deter copper wire theft.	Maintenance	Gonzalo Gomez/Agustin Rosales	Hassan Aboukhadijeh	CTC	Completed	Completed	3/25/13	5/24/13	PI findings supports the Wire Theft Prevention Task Team methodologies.
PI-0714-MA	Traction Device study	Maintenance	David Frame	Bob Meline	CTC	Completed	Completed	5/27/14	8/22/14	CTC delivered the final PI report on 7/21/14. PI results will be shared with CHP. This will possibly be a research project.
PI-0914-MA	Avalanche Mapping Study	Maintenance	David Frame	Bob Meline	AHMCT	In-progress	In-progress			Maintenance met with AHMCT on 7/30/14 to review work to date. Draft PI provided mid June. A DOT survey is being developed to include in PI.

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PI-0914-MA	FIRECAST	Maintenance	Rene Garcia	Joe Horton	CTC	Completed	Completed	9/12/14	1/9/15	Panel members discussed doing a Firecast study will work with Joe Horton and staff
PI-0213-MA	Variances in advanced warning signage	Maintenance	Theresa Drum	Joe Horton	CTC	In-progress	In-progress	1/22/15		This PI was developed by Pat Fyhrie at AHMCT but customer rep requested CTC completed the PI.
PI-0914-MA	Automated Steering and control of paint striping machine	Maintenance	Gonzalo Gomez	Joe Horton	CTC	No longer needed	No longer needed			Joe Horton stated in maintenance's pre PSC meeting the PI is no longer needed.
PI-0114-MO	State Aeronautics Role in an Emergency Air Operations Branch	Modal	Derek Kantar, Herby Lissade,Terry Barrie, Patrick J Miles, Dan Reese, Phillip Miller, Chris Avina	Patrick Tyner	CTC	Completed	Completed	3/16/14	10/1/14	The PI helped to complete the rewrite of the Air Coordination Group Concept of Operations that's reviewed at Cal OES
PI-0314-MO	Demand Responsive Transit Operation Based on Dynamic Passenger Information	Modal	Scott Sauer	Bradley Mizuno	Lee Provost	Completed	Completed	4/1/14	4/15/14	Satisfied with PI-possible research project
PI-0920-MO	Transit Data and Planning Integration	Modal	Scott Sauer	Bob Justice	CTC	Completed	Completed	4/3/12	7/10/12	To be addressed in a MTI research study beg Sept 2013, involving Traffic Ops, DMT, DOTP, and DIRSI"
PI-0936-MO	Assessing Park and Ride Impacts	Modal	Scott Sauer	Bob Justice	CTC	Completed	Completed	3/24/10	6/17/10	TCRP Project
PI-0903-MO	Disaster Recovery Planning	Modal	Colette Armao	Dan Lovegren	CTC	Completed	Completed	6/18/09	3/2/10	DRI Research Project
PI-0915-MO	Transit Oriented Development (TOD) Evaluations	Modal	Jila Priebe	Bob Justice	Student	No longer needed	No longer needed			
PI-0929-MO	Passenger Locomotive Air Quality	Modal	Ken Galt	Dan Lovegren		No longer needed	No longer needed			
PI-0910-PA	HMA Taper Specification/ Details	Pavement	Chris Cummings	Joe Holland	CTC	Completed	Completed	12/2/09	3/16/10	TPF project
PI-0312-PA	Recycled Concrete	Pavement	Dan Speer/ Bill Farnbach	Joe Holland	CTC	Completed	Completed	3/13/12	10/1/12	Satisfied with PI possible research project
PI-0921-PA	20 Year Flexible Pavement Rehabilitation	Pavement	Bill Farnbach			No longer needed	No longer needed			
PI-0930-PA	Interlayer for Cracking Reduction	Pavement	Bill Farnbach			No longer needed	No longer needed			

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PI-0937-PA	Automatic Asphalt Concrete Quantities Estimation	Pavement	Terrie Bressette			No longer needed	No longer needed			
PI-0942-PA	Longer Lasting PCC Replacement Slabs	Pavement	Kirsten Stahl			No longer needed	No longer needed			
PI-0953-PPSI	Comparison of California to other State's DOT's on Project Initiation Documents and Reimbursement Schemes	Planning/Policy/ System Information	Nathan Smith/ Marlon Flournoy	Paul Moore	CTC	Completed	Completed	8/10/10	1/11/11	Satisfied with PI
PI-1101-PPSI	Developing Air Quality Mitigation Measures for Projects' Operational Emissions	Planning/Policy/ System Information	David Ipps	Patrick Tyner	CTC	Completed	Completed	1/31/11	6/15/11	Satisfied with PI-will request research project
PI-0916-PPSI	California Best Practices for Rural and Tribal Smart Growth (1)	Planning/Policy/ System Information	Marilee Mortenson/ Terry Parker	Bob Justice	CTC	Completed	Completed	4/13/10	8/11/10	Satisfied with PI
PI-1003-PPSI	Inactive and Abandoned Rail Corridor Preservation Study	Planning/Policy/ System Information	Todd LaCasse	Matt Hanson	CTC	Completed	Completed	3/21/11	7/25/11	Satisfied with PI
PI-1112-PPSI	How Other Transportation Agencies Address Public Health Issues	Planning/Policy/ System Information	Garth Hopkins	Bob Justice	CTC	Completed	Completed	6/17/11	11/16/11	PI submitted as background material for NCHRP research project
PI-1108-PPSI	Smart Mobility Performance Measurement Deployment (1)	Planning/Policy/ System Information	Chris Ratekin	Bob Justice	CTC	Completed	Completed	2/10/12	6/1/12	Satisfied with PI-
PI-0712-PPSI	Smart Mobility Performance Measurement Deployment (2)	Planning/Policy/ System Information	Chris Ratekin	Bob Justice	Tech Transfer Librarians	Completed	Completed	6/12/12	7/12/12	Tech Transfer completed the final report
PI-0413-PPSI	Smart Mobility Performance Measurement Deployment (3)	Planning/Policy/ System Information	Chris Ratekin	Bob Justice	CTC	Completed	Completed	3/21/13	4/2/13	Sustainable Transportation—Smart Mobility was not selected for funding for the NCHRP Synthesis studies.
PI-1111-PPSI	Best Practices for Environmental Consideration in Systems Planning Documents (1)	Planning/ Policy/ System Information	Aileen Loe	Bob Justice	Tech Transfer Librarians	Completed	Completed			Tech Transfer completed the final report

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PI-1112-PPSI	Best Practices for Environmental Consideration in Systems Planning Documents (2)	Planning/ Policy/ System Information	Aileen Loe	Bob Justice	CTC	Completed	Completed			PI submitted as background material for NCHRP research project
PI-1109-PPSI	The influence of Transit on Highway Operations (1)	Planning/ Policy/ System Information	Fredrick Schermer/Erik Alm	Bob Justice	Tech Transfer Librarians	Completed	Completed	4/13/13	7/10/13	Tech Transfer delivered updated report on 9/25/13.
PI-0713-PPSI	The influence of Transit on Highway Operations (2)	Planning/Policy/ System Information	Fredrick Schermer/Erik Alm	Bob Justice	CTC	Completed	Completed	7/22/13	11/1/13	Satisfied with PI
PI-0314-PPSI	Survey of Best Practices for Decreasing GHG Emissions Through System Management, Operational Improvements, and Pavement Condition.	Planning/Policy/ System Information	Garth Hopkins, LaNae Van Valen, Rahul Srivastava, Julia Biggar, Joan Sollenberger, Nick Compin, Tom Pyle	Patrick Tyner	CTC	Completed	Completed	7/2/14	10/2/14	Satisfied with PI
PI-1110-PPSI	Feasibility of Moving Freight on High-Speed Rail Networks	Planning/Policy/ System Information	Todd LaCasse/Joanne McDermott	Patrick Tyner	CTC	In-progress	In-progress	11/19/14		CTC plans to deliver the final draft report by 1/16/15
PI-0115-PPSI	Methodologies for Mitigating Freight Impacts to Nearby Communities	Planning/Policy/ System Information	Joanne McDermott, Marilee Mortenson , Emily Mraovich	Patrick Tyner	CTC	In-progress	In-progress	1/29/15		
PI-1112-PPSI	Return on Investment for Smart Growth Land Uses	Planning/ Policy/ System Information				1	In-queue			
PI-1113-PPSI	Electrification of Highways for Goods Movement	Planning/ Policy/ System Information				2	In-queue			

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PI-1115-PPSI	Modal and Long Range Plan Integration	Planning/ Policy/ System Information	Laurie Waters and CIB Team			3	In-queue			
PI-1116-PPSI	Tribal Participation in Transportation Planning and Programming	Planning/ Policy/ System Information	Kimberly Johnston-Dodds			4	In-queue			
PI-0952-PPSI	Community Engagement Practices	Planning/Policy/ System Information	Joshua Pulverman			5	In-queue			
PI-0955-PPSI	Best Practices from State DOT's on Transportation Planning Workload Analysis	Planning/ Policy/ System Information	Nathan Smith/ Mitch Baker			6	In-queue			
PI-0925-PPSI	Goods Movement Infrastructure and affected communities map	Planning/ Policy/ System Information	Mike Brady/ Coco Briseno/ Bob Cervantes/ Nathan Smith/ Marilee Mortenson			7	In-queue			
PI-0913-PPSI	Reducing Uncertainty in Modeling High-Speed Emissions in California (2)	Planning/ Policy/ System Information	David Ipps			8	In-queue			
PI-0945-PPSI	Assessing the track records of growth models and improvements for future development	Planning/Policy/ System Information	Austin Lee			9	In-queue			
PI-0954-PPSI	Illegal Truck Parking and Roadside Safety in California (5)	Planning/ Policy/ System Information	Jeffrey Spencer			No longer needed	No longer needed			
PI-0934-PPSI	Goods Movement Data Library	Planning/ Policy/ System Information	Mike Brady/ Vahid Nowshiravan/ Pam Korte	Marcus Evans		No longer needed	No longer needed			

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PIP-08-PPSI	Transportation System Performance Measures (3)	Planning/ Policy/ System Information	Coco Briseno	Bob Justice		No longer needed	No longer needed			
PI-0950-PPSI	Designing Highway Facilities to Encourage Walking, Biking and Transit ("Complete Streets")	Planning/ Policy/ System Information	Nancy Chinlund		CTC	Pilot	Completed		3/1/09	DRI Research Project
PI-1012-PPSI	California Rural-Urban Interactive Study	Planning/ Policy/ System Information	Terry Parker		Student (Kathleen)	In-queue	In-queue	4/30/10		
PI-1113-PPSI	Seamless Bike Survey	Planning/ Policy/ System Information			Student (JoJo)	In-queue	In-queue	4/30/10		
PI-0214-RW	Statewide Real Time Global Positioning System (GPS) Network Implementation	Right of Way/ Land Surveys	Scott Martin	Robert Buendia	CTC	In-progress	In-progress	9/9/14		CTC delivered final draft report on 1/14/15
PI-13014-RW	Large Geospatial Datasets Management	Right of Way/ Land Surveys	Mark Turner	Randy Woolley		1	In-queue			Pending receipt of PI request
PI-0214-RW	State Department of Transportation National Spatial Data Infrastructure (NSDI) implementation	Right of Way/ Land Surveys	Mark Turner	Randy Woolley		2	In-queue			In RWLS PSC meeting Mark Turner suggested DRISI consider completing the PI topic. PI request was sent Joe Horton
PI-0917-RW	Unmanned Aerial Drones	Right of Way/ Land Surveys	Mark Turner	Randy Woolley		3	In-queue			Pending receipt of PI request
PI-0911-RW	Aerial Pavement Surveys from Combined Low-Level LiDAR and Digital Photogrammetry System.	Right of Way/ Land Surveys	James Appleton	Randy Woolley	CTC	Completed	Completed	10/28/09		Satisfied with PI
PI-1013-RW	Digital Archive Backup and Operational Recovery System for the Caltrans Aerial Photography Library	Right of Way/ Land Surveys	James Appleton	Randy Woolley	CTC	Completed	Completed	10/27/09	5/28/10	Satisfied with PI
PI-0214-RW	Aerial Pavement Surveys Literature Search	Right of Way/ Land Surveys	James Appleton	Randy Woolley	CTC	No longer needed	No longer needed	5/17/10		

Preliminary Investigation Check List

PP	PI Title	PSC	Customer Rep	PM	Investigator	Priority	Status	Kickoff Meeting	Close-out Meeting	PI Results
PI-0918-RW	Standards for Global Navigational Satellite Systems	Right of Way/ Land Surveys	Mark Turner	Randy Woolley		No longer needed	No longer needed			
PI-0907-RU	Locate, Construct, Test, and Validate a California Site for a USGS Digital Aerial Imagery Calibration Range.	Right of Way/ Land Surveys	Kevin Akin			No longer needed	No longer needed			
PI-1001-RU	Improved Chain Control Operations	Rural	Ian Turnbull/ Tim Fitzpatrick	Sean Campbell	CTC	Completed	Completed	11/18/09	4/6/10	DRI Research Project
PI-1114-RU	Effective Methods for Ensuring Accuracy of Roadway Temperature/Ice/Chemical Sensors	Rural	MIKE BEYER, SEAN CAMPBELL	Ian Turnbull	CTC	In-progress	In-progress	12/15/14		CTC delivered the planned scope on 1/7/2015
PI-1114-RU	Reducing Animal-Vehicle Collisions Using Vehicle-Mounted Heat Detection	Rural	LONNIE HOBBS, SEAN CAMPBELL	Ian Turnbull		1	In-queue			
PI-0906-SHSP	Improving Highway Advisory Radio Transmission and Predictability	Rural	Ian Turnbull	Sean Campbell	CTC	Completed	Completed	3/14/11	5/18/11	Satisfied with PI
PI-0905-SHSP	Improve Driver Decisions and Performance in High Speed, Multilane, Complex Conditions	SHSP CA-5 Transp Safety & Mobility	Wes Lum	Joel Retanan	CTC	Completed	Completed	8/31/09	2/23/10	Satisfied with PI - possible 11/12 project
PI-1-CC	Identify Pedestrian Safety Improvement Programs and Establish a Data Think Tank	SHSP CA-8 Transp Safety & Mobility	Richard Haggstrom	Joel Retanan	CTC	Completed	Completed	7/30/09	2/17/10	DRI Research Project
PI-2-CC	RFP to Upgrade Roadway and Roadside Visual Image and Attribute Data Collection and Distribution	System Performance Management	Matt Friedman	Asfand Siddiqui	CTC	In-progress	In-progress	7/9/14		Lee Provost completed the internal survey. CTC delivered the final draft report on 1/7/2014. Report has been sent to the panel for final review.
PI-0904-TS&M	Organizational Structure of Tolling Agencies	System Performance Management	Joe Rouse	Hassan Aboukhadijeh	In (House) PI completed by Roya Hassas	Completed	Completed	6/12/14	6/12/14	PI submitted as background material for NCHRP research project
PI-0938-TS&M	Equal Severity Curve Update	Transp Safety & Mobility	Alex Kennedy/ Thomas Schriber	Joel Retanan	CTC	Completed	Completed		7/1/09	Satisfied with PI - possible future project
PI-1011-TS&M	Left Turn Flashing Yellow Arrow	Transp Safety & Mobility	Ted Lombardi	Jerry Kwong	CTC	Completed	Completed	11/19/10	2/23/11	Satisfied with PI-possible 11/12 project
PI-0922-TS&M	Bicycle Sign comprehension ("Bikes In Lane" Warning Sign)	Transp Safety & Mobility	Dario Senior	Jerry Kwong	CTC	Completed	Completed	3/11/11	11/15/11	Satisfied with PI-possible research project

Preliminary Investigation Check List

PP	PI Title	PSC	Customer Rep	PM	Investigator	Priority	Status	Kickoff Meeting	Close-out Meeting	PI Results
PI-0926-TS&M	Low Speed Temporary Sand Filled Crash Cushions	Transp Safety & Mobility	Randy Hiatt	Vue Her	DRI	Completed	Completed	10/5/10	12/1/10	
PI-1005-TS&M	Queue Storage and Acceleration Lane Length Design at Metered Onramps	Transp Safety & Mobility	Zhongren Wang/ Lester Lee	Jose D Perez	CTC	Completed	Completed	1/10/12	3/15/12	Satisfied with PI-research project
PI-1006-TS&M	Method for Identifying and Mitigating Highway Locations with High Risks under Wet Weather Conditions	Transp Safety & Mobility	TBD	Haniel Chung		No longer needed	No longer needed			
PI-1007-TS&M	Implementation of Centrally Controlled Adaptive Ramp Metering System	Transp Safety & Mobility	Zhongren Wang	Fred Yazdan		No longer needed	No longer needed			
PI-1008-TS&M	Enhanced Travel Times using historical and real-time data	Transp Safety & Mobility	Diana Gomez	Fred Yazdan		No longer needed	No longer needed			
PI-0212-TS&M	Lane-by-lane Active Traffic Management	Transp Safety & Mobility	Diana Gomez			No longer needed	No longer needed			
PI-1009-TS&M	Traveler Information using Social Network Systems	Transp Safety & Mobility	Alan Bensen/ Mike Jenkinson			No longer needed	No longer needed			
PI-0202-TS&M	Galvanizing Metal Rail Elements	Transp Safety & Mobility	Randy Hiatt	Vu Her	CTC	Completed	Completed	6/4/12	11/7/12	CTC report identify related research NCHRP Project 20-17 panel thinks the report should answer the question about the lifecycle of the two kinds of guard rail.
PI-0931-TS&M	Field Operation Test on Dynamic 24-hours Traffic Responsive Ramp Metering Operations	Transp Safety & Mobility	Zhongren Wang/ Lester Lee	Joel Retanan	CTC	Completed	Completed	5/17/13	6/10/13	We all agreed that a new research project is needed to do a before-and-after evaluation of a 24-hour traffic-responsive ramp metering.
PI-0613-TS&M	Nighttime Visibility and Headlight Glare	Transp Safety & Mobility	Jerry Champa	Nate Loeb	CTC	Completed	Completed	2/27/13	11/5/13	The report provided information and knowledge of what is practiced by other State DOTs. No other investigative research is needed. Will recommend creating an "Internal Subcommittee Team" from Districts rep to lead the evaluation /update on the department existing lighting policy

Preliminary Investigation Check List

PP	PI Title	PSC	Customer Rep	PM	Investigator	Priority	Status	Kickoff Meeting	Close-out Meeting	PI Results
PI-0613-TS&M	Proposal to relocate freeway exit gore signs	Transp Safety & Mobility	Donald E. Howe	Randy Woolley/Triet Bui	CTC	Completed	Completed	7/29/13	11/14/13	14/15 Research project done through Maintenance PSC
PI-1213-TS&M	ASTM Type XI sign sheeting on overhead sign structures without illumination	Transp Safety & Mobility	Donald E. Howe	Randy Woolley/Triet Bui	CTC	Completed	Completed	11/14/13	10/1/14	Panel satisfied with findings
PI-0212-TS&M	Use of the Midwest Guardrail System with 8-inch blocks and 6-inch high curb or dike	Transp Safety & Mobility	Randy Hiatt			1	In-queue			
PI-1010-TS&M	Radar Detector for Ramp Metering Demonstration	Transp Safety & Mobility	Zhongren Wang/ Lester Lee			2	In-queue			
PI-0212-TS&M	Dynamic Speed Sign Effectiveness	Transp Safety & Mobility	Roberta McLaughlin			3	In-queue			
PI-0801-TS&M	Shadow Striping	Transp Safety & Mobility	Haissam Yahya			4	In-queue			
PI-0109-TS&M	Crash Reduction Factor Update	Transp Safety & Mobility	Thomas Schriber		CTC	Pilot	Completed		1/31/09	Satisfied with PI